

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A data processing system comprising:
at least one special purpose data processing unit for executing a series of predetermined data processes by a special purpose instruction; and
a general purpose data processing unit for executing processes designated by general purpose instructions~~[[.]]~~ ;
wherein the at least one special purpose data processing unit ~~[[has]]~~ includes:
a dedicated circuit portion specialized in specific data processes; ~~[[and]]~~
a sequence control portion that supplies first control signals for controlling the dedicated circuit portion ~~with control signals to control the dedicated circuit portion~~ in accordance with a predetermined processing procedure; ~~[[.]]~~ and
a selector for selectively supplying the dedicated circuit portion with selected control signals between the first control signals supplied from the sequence control portion and second control signals supplied from the general purpose data processing unit, the second control signals superseding the first control signals and wherein the general purpose data processing unit ~~[[is]]~~ being able to control the dedicated circuit portion ~~in accordance with a procedure different from the processing procedure preset in~~ instead of the sequence control portion.
2. (Canceled)
3. (Canceled)

4. (Previously Presented) A data processing system according to claim 1, further comprising:

a fetch unit for fetching the special purpose instruction and the general purpose instructions from a recording means where a program having the special purpose instruction and the general purpose instructions are recorded and for supplying the special purpose data processing unit with the special purpose instruction.

5. (Currently Amended) A data processing system according to claim 4,

wherein the general purpose data processing unit is able to supply the second dedicated circuit portion with control signals superseding the control signals supplied from the sequence control portion based on at least one of the general purpose instructions, and wherein the special purpose data processing unit has a selection means for supplying the dedicated circuit portion with selected control signals among the control signals supplied from the sequence control portion and the control signals supplied from the general purpose data processing unit.

6. (Currently Amended) A data processing system according to claim ~~[[5]]~~ 1,

wherein the selection means is controlled by the general purpose data processing unit.

7. (Canceled)

8. (Currently Amended) A control method of a data processing system comprising at least one special data processing unit for executing a series of predetermined data processes by a special purpose instruction and a general purpose data processing unit for executing processes designated by general purpose instructions, wherein the at least one special purpose data processing unit ~~[[has]]~~ includes: a dedicated circuit portion specialized in specific data processes and processes; a sequence control portion that supplies first control signals for controlling the dedicated circuit portion with control signals to control the dedicated circuit portion in accordance with a predetermined processing procedure; and a selector for supplying the dedicated circuit portion with selected control signals between the first control signals supplied from the sequence control portion and second control signals supplied from the general purpose

data processing unit, comprising:

a first step of ~~supplying~~ controlling the dedicated circuit portion with a series of the first control signals ~~by~~ based on the special purpose instruction ~~in accordance with the processing procedure preset in the sequence control portion and controlling the dedicated circuit portion;~~ and

a second step of controlling the dedicated circuit portion ~~by at least one of the general purpose instructions in accordance with a procedure different from the processing procedure preset in the sequence control portion~~ with the second control signals based on at least one of the general purpose instructions, the second control signals superseding the first control signals and the general purpose data processing unit controlling the dedicated circuit portion instead of the sequence control portion.

9. (Canceled)

10. (Canceled)

11. (Currently Amended) A program product within a readable medium executed on a data processing system for controlling the [[a]] data processing system, the program product has general purpose instructions for a general purpose data processing unit and a special purpose instruction for a special purpose data processing unit, the special purpose data processing unit comprising: a dedicated circuit portion specialized in specific data processings and processes; a sequence control portion that supplies first control signals for controlling the dedicated circuit portion with control signals to control the dedicated circuit portion in accordance with a predetermined processing procedure; and a selector means for supplying the dedicated circuit portion with selected control signals between the first control signals supplied from the sequence control portion and second control signals supplied from the general purpose data processing unit,

wherein the special purpose instruction is an instruction to supply the dedicated circuit portion with the first control signals ~~in accordance with a preset processing procedure in the sequence control portion and to control the dedicated circuit portion, and~~

wherein ,as the general-purpose instructions[[,]] includes a priority instruction ~~to control the dedicated circuit portion in accordance with a procedure different from the processing procedure preset in the sequence control portion is provided~~ that is converted into the second control signals that supersede the first control signals and control the dedicated circuit portion instead of the sequence control portion.

12. (Canceled)

13. (Canceled)